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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	5	Attorney Docket Number	JKJ-003US
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Complete if Known

Application Number	10/510,276-Conf. #9537
Filing Date	August 22, 2005
First Named Inventor	Robyn O'HEHIR
Art Unit	1644
Examiner Name	N. M. Rooney

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
	B1	WO-89/09260-A1	10-05-1989	The University of Melbourne		
	B2	WO-92/03550-A1	03-05-1992	The University of Melbourne		
	B3	WO-93/04174-A1	03-04-1993	The University of Melbourne		
	B4	WO-94/04564-A1	03-03-1994	The University of Melbourne		
	B5	WO-95/06728-A1	03-09-1995	Immulogic Pharmaceutical Corporation		

Examiner Signature		Date Considered	
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	Attwood, Teresa K., "The Babel of Bioinformatics," <i>Science</i> , Vol. 290(5491):471-473 (2000)	
	C2	Blaher, Bella et al, "Identification of T-cell epitopes of Lol p 9, a major allergen of ryegrass (<i>Lolium perenne</i>) pollen," <i>J. Allergy Clin. Immunol.</i> , Vol. 98:124-132 (1996)	
	C3	Blumenthal et al., "Definition of an Allergen," <i>Allergens and Allergen Immunotherapy</i> , Ed. R. Lockey, S. Bukantz and J. Bousquet, New York: Marcel Dekker, pgs. 37-50 (2004)	
	C4	Bose, et al. Production and characterization of mouse monoclonal antibodies to allergenic epitopes on Lolpl (Rye I). <i>Immunology</i> . 1986 Oct;59(2):309-15.	
	C5	Bowie et al., "Deciphering the message in protein sequences: tolerance to amino acid substitutions," <i>Science</i> , Vol. 247(4948):1306-1310 (1990)	
	C6	Brieva, et al. Rapid purification of the main allergen of <i>Lolium perenne</i> by high-performance liquid chromatography. <i>J Chromatogr</i> . 1986 Nov 26;370(1):165-72.	
	C7	Burgess et al., "Possible Dissociation of the Heparin-binding and Mitogenis Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>J. Cell. Biol.</i> , Vol. 111:2129-2138	

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	C8	Burton, Matthew D. et al. "T-cell receptor contact and MHC binding residues of a major rye grass pollen allergen T-cell epitope," <i>J. Allergy Clin. Immunol.</i> , Vol. 103:255-261 (1999)	
	C9	Chakrabarty S, et al. Detection of cross-reactive allergens in Kentucky bluegrass pollen and six other grasses by crossed radioimmuno-electrophoresis. <i>Int Arch Allergy Appl Immunol.</i> 1981;66(2):142-57.	
	C10	Cook, et al. Induction of allergen-specific T cells by conjugates of N-formyl-methionyl-leucyl-phenylalanine and rye grass pollen extract. <i>Int Arch Allergy Appl Immunol.</i> 1988;85(1):104-8.	
	C11	Cornford, et al. IgE-binding proteins from pine (<i>Pinus radiata</i> D. Don) pollen: evidence for cross-reactivity with ryegrass (<i>Lolium perenne</i>). <i>Int Arch Allergy Appl Immunol.</i> 1990;93(1):41-6.	
	C12	Cottam, et al. Immunological properties of chemically produced fragments of rye grass pollen extract. <i>Immunol Lett.</i> 1988 Apr;17(4):345-9.	
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	C15	Ellis. New Technologies for Making Vaccines. <i>Vaccines.</i> 1988, W.B. Saunders Company. pp. 568-575.	
	C16	Esch, et al. Isolation and characterization of a major cross-reactive grass group I allergenic determinant. <i>Mol Immunol.</i> 1989 Jun;26(6):557-61.	
	C17	Freidhoff, et al. Association of HLA-DR3 with human immune response to Lol p I and Lol p II allergens in allergic subjects. <i>Tissue Antigens.</i> 1988 Apr;31(4):211-9.	
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	C20	Griffith, et al. Cloning and sequencing of Lol pl, the major allergenic protein of rye-grass pollen. <i>FEBS Lett.</i> 1991 Feb 25;279(2):210-5.	
	C21	Hatton, et al. Molecular Cloning of Kentucky Bluegrass Pollen Allergens. <i>J. Allergy Immunology.</i> 1988. 81(1):183.	
	C22	Hill, et al. Specific cellular and humoral immunity in children with grass pollen asthma. <i>Clin Allergy.</i> 1982 Jan;12(1):83-9.	
	C23	Hopp, et al. Prediction of protein antigenic determinants from amino acid sequences. <i>Proc Natl Acad Sci U S A.</i> 1981 Jun;78(6):3824-8.	
	C24	Howlett, et al. Cross-reactivity between Acacia (wattle) and rye grass pollen allergens. Detection of allergens in Acacia (wattle) pollen. <i>Clin Allergy.</i> 1982 May;12(3):259-68.	
	C25	Kahn, et al. Monoclonal antibodies to the major <i>Lolium perenne</i> (rye grass) pollen allergen Lol p I (Rye I). <i>Mol Immunol.</i> 1986 Dec;23(12):1281-8.	
	C26	Klysner, et al. Group V allergens in grass pollens: IV. Similarities in amino acid compositions	

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Sheet	3	of	5	Attorney Docket Number	JKJ-003US

		and NH2-terminal sequences of the group V allergens from <i>Lolium perenne</i> , <i>Poa pratensis</i> and <i>Dactylis glomerata</i> . Clin Exp Allergy. 1992 Apr;22(4):491-7.	
	C27	Kumar, et al. Amino acid variations at a single residue in an autoimmune peptide profoundly affect its properties: T-cell activation, major histocompatibility complex binding, and ability to block experimental allergic encephalomyelitis. Proc Natl Acad Sci U S A. 1990 Feb;87(4):1337-41.	
	C28	Lazar et al., "Transforming Growth Factor alpha: Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," Mol. Cell. Biol., Vol. 8(3):1247-1252 (1988)	
	C29	Lin, et al. Isolation and characterization of <i>Poa p I</i> allergens of Kentucky bluegrass pollen with a murine monoclonal anti-Lol p I antibody. Int Arch Allergy Appl Immunol. 1988;87(3):294-300.	
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	C31	Lowenstein, et al. Immunological partial identity and in vitro inhibitory effect of two major timothy pollen allergens to whole pollen extract of four grasses. Int Arch Allergy Appl Immunol. 1978;57(4):379-83.	
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	C35	Margalit, et al. Prediction of immunodominant helper T cell antigenic sites from the primary sequence. J Immunol. 1987 Apr 1;138(7):2213-29.	
	C36	Marsh, et al. Induction of IgE-mediated immediate hypersensitivity to group I rye grass pollen allergen and allergoids in non-allergic man. Immunology. 1972 Jun;22(6):1013-28.	
	C37	Martin, et al. Cross-allergenicity among the grasses. Ann Allergy. 1985 Feb;54(2):99-104.	
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	C40	Mecheri, et al. Purification and characterization of a major allergen from <i>Dactylis glomerata</i> pollen: the Ag Dg1. Int Arch Allergy Appl Immunol. 1985;78(3):283-9.	
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	C44	Mourad, et al. Study of the epitope structure of purified Dac G I and Lol p I, the major allergens of <i>Dactylis glomerata</i> and <i>Lolium perenne</i> pollens, using monoclonal antibodies. J Immunol. 1988 Nov 15;141(10):3486-91.	
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		Le Grand, Boston: Birkhauser, pgs. 491-495 (1994)	
	C46	Olsen, et al. Identification and characterization of the Poa p IX group of basic allergens of Kentucky bluegrass pollen. J Immunol. 1991 Jul 1;147(1):205-11.	
	C47	Ong, Eng Kok et al, "Cloning of a cDNA encoding a group-V (group-IX) allergen isoform from rye-grass pollen that demonstrates specific antigenic immunoreactivity," Gene, Vol. 134:235-240 (1993)	
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	C49	Perez, et al. cDNA cloning and immunological characterization of the rye grass allergen Lol p I. J Biol Chem. 1990 Sep 25;265(27):16210-5.	
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	C61	Suphioglu et al., "Molecular cloning, expression and immunological characterisation of Lol p 5C, a novel allergen isoform of rye grass pollen demonstrating high IgE reactivity," FEBS, Vol. 462:435-441 (1999)	
	C62	Swoboda, Ines et al, "Hypoallergenic Forms of the Ryegrass Pollen Allergen Lol p 5 as Candidates for Immunotherapy," International Archives of Allergy and Immunology, Vol. 124:380-382 (2001)	
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	C65	Van Ree, et al. Characterization with monoclonal and polyclonal antibodies of a new major allergen from grass pollen in the group I molecular weight range. J Allergy Clin Immunol. 1989 Jan;83(1):144-51.	
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